

Level	Criteria / indicators	Sub-themes	Found in literature	Perceived importance from literature source
Crossings	<b>Accessibility</b>			
	Crossings with traffic light		Bernhoff and Carstensen 2008	High
	Crossings with traffic light		Verschaar 2014	
	Crossings with traffic light		Dunbar et al. 2004	
	Crossings with zebra crossing		R.T., 1991	
	Crossings with zebra crossing		Wennberg et al. 2010	
	Crossings with zebra crossing		Borst et al. 2008	Positively related
	Zebra crossings		Bernhoff and Carstensen 2008	Dangerous
	No crossing		Verschaar 2014	
	lack of crosswalks		Rosenberg et al. 2012	
	<b>Quality</b>			
	Misplaced crossing		Rosenberg et al. 2012	
	Crossings no curb at zebra crossings		Wennberg et al. 2010	
	Traffic lights without audio signal		Verschaar 2014	
	clearly marked crosswalks		Rosenberg et al. 2012	
	<b>Obstruction</b>			
	<b>Route Attractiveness</b>			
	<b>Safety</b>			
	Too short crossing time		Rosenberg et al. 2012	
	Too short crossing time		Vine et al. 2012	major concern
	Too short crossing time		Dunbar et al. 2004	
	Bad overview crossing		Rosenberg et al. 2012	
	Bad overview crossing		Vine et al. 2012	
	limited sight near a crossing		Verschaar 2014	negative
	Fast speed traffic at crossing		Rosenberg et al. 2012	
	More traffic islands		Dunbar et al. 2004	
Pavement	<b>Accessibility</b>			
	Presence of pavement		Bernhoff and Carstensen 2008	High
	Presence of pavement		Borst et al. 2008	
	Presence of pavement		Rosenberg et al. 2012	Key theme
	No pavement		Verschaar 2014	
	Width of the pavement		Rosenberg et al. 2012	
	narrow pavements		Mathews et al. 2002	Most cited urban barriers
	narrow pavements		Vine et al. 2012	
	Curbs	greencase	Borst et al. 2008	
	Heigh curbs		Mathews et al. 2002	Most cited urban barriers
	Heigh curbs		Hovbrandt et al. 2007	
	Heigh curbs		Werkgroep Wageningen Toegankelijk 2012	
	Heigh curbs		Verschaar 2014	
	low curb		Wennberg et al. 2010	
	Curb ramps	Lack of	Rosenberg et al. 2012	Key theme
	Location pavement ramps		Borst et al. 2008	
	Stairs		Borst et al. 2008	Positively related
	Stairs		Verschaar 2014	
	Prencence of stairs		Rosenberg et al. 2012	
	steps		Mathews et al. 2002	Most cited urban barriers
	No alternative to stairs		Rosenberg et al. 2012	
	<b>Quality</b>			
	Smooth surface		Bernhoff and Carstensen 2008	High
	Smooth surface		Rosenberg et al. 2012	Key theme
	Smooth surface		Wennberg et al. 2010	
	uneven pavement		Hovbrandt et al. 2007	
	uneven pavement		Verschaar 2014	
	Cobbled surfaces		Mathews et al. 2002	Most cited urban barriers
	Slippery surfaces	grass, unlevel ground	Rosenberg et al. 2012	
	Material pavement	Asphalt, stones, gravel	Mathews et al. 2002	Most cited urban barriers
	Material pavement		Werkgroep Wageningen Toegankelijk 2012	
	Maintenance of pavement	debris, cracks, holes	Mathews et al. 2002	Most cited urban barriers
	Lack of adequate maintenance		Verschaar 2014	
	homogeneity material	holes, loose tiles, cracks	Wennberg et al. 2010	
	homogeneity material	roots	Rosenberg et al. 2012	
	Wrong location of curbs		Rosenberg et al. 2012	
	too steep curb ramps		Rosenberg et al. 2012	Key theme
	Dropped curbs	lack of	Mathews et al. 2002	Most cited urban barriers
	dangerous curb ramp conditions		Rosenberg et al. 2012	
	Slope of pavements		Borst et al. 2008	
	Slope of pavements		Werkgroep Wageningen Toegankelijk 2012	
	Lack of handrail of stairs		Wennberg et al. 2010	
	Lack of handrail of stairs		Rosenberg et al. 2012	
	well-contrasted steps of stairs		Wennberg et al. 2010	
	well-contrasted steps of stairs		Verschaar 2014	
	Handrails on stairs		Verschaar 2014	
	<b>Objects Barriers</b>			
	Objects on the pavement		Borst et al. 2008	
	Objects on the pavement		Rosenberg et al. 2012	
	Poles		Rosenberg et al. 2012	
	Parked bikes		Rosenberg et al. 2012	
	Parked bikes		Hovbrandt et al. 2007	
	Parked bikes		Wennberg et al. 2010	
	parked bikes/scooters		Verschaar 2014	negative
	Wrongly parked bikes		Werkgroep Wageningen Toegankelijk 2012	
	Trees			
	drain cover			
	Parked cars blocking side-walk		Rosenberg et al. 2012	
	Parked cars blocking side-walk		Werkgroep Wageningen Toegankelijk 2012	
	ramps or sidewalks blocked by parked cars		Verschaar 2014	
	obstructions blocking ramps		Rosenberg et al. 2012	
	Advertisement boards		Werkgroep Wageningen Toegankelijk 2012	
	Blocking commercial signs		Wennberg et al. 2010	
	Gutters		Mathews et al. 2002	Most cited urban barriers
	Gutters		Wennberg et al. 2010	
	Rain Gutlles in pavement		Verschaar 2014	
	protruding portals, facades, basement windows		Verschaar 2014	
	green maintenance	branches cut	Wennberg et al. 2010	
	Branches hanging over pathway		Verschaar 2014	
	<b>Route Attractiveness</b>			
	Dog droppings		Borst et al. 2008	Very negative
	dog poo		Verschaar 2014	negative
	Garbage	bags, litter	Borst et al. 2008	
	Litter		Verschaar 2014	
	Garbage		Wennberg et al. 2010	
	Aesthetics, prencence of unattractive features	litter, graffiti, garbage, smoking	Rosenberg et al. 2012	
	Aesthetics, prencence of attractive features	sature, green, water, animals, art	Rosenberg et al. 2012	
	<b>Safety</b>			
Street	<b>Accessibility</b>			
	availability bridge			
	continuous guidance routes		Wennberg et al. 2010	
	clear warning markings		Wennberg et al. 2010	
	clear contrast markings		Wennberg et al. 2010	
	<b>Quality</b>			
	Slope of the street		Rosenberg et al. 2012	Key theme
	too steep		Mathews et al. 2002	Most cited urban barriers
	Slope		Wennberg et al. 2010	
	hilly topography		Vine et al. 2012	
	hills		Verschaar 2014	
	Hills		Rosenberg et al. 2012	
	Slope of bridges			
	<b>Obstruction</b>			
	<b>Route attractiveness</b>			
	Available public toilets		Verschaar 2014	
	Availability shelter againts rain		Rosenberg et al. 2012	
			Dunbar et al. 2004	
	Protection from sun and rain		Verschaar 2014	
	Availability resting benches		Borst et al. 2008	
	Availability resting benches		Rosenberg et al. 2012	
	Availability resting benches		Hovbrandt et al. 2007	
	Availability resting benches		Dunbar et al. 2004	
	Availability resting benches		Wennberg et al. 2010	
	benches		Verschaar 2014	positive
	Trees along the route		Borst et al. 2008	Positively related
	Trees along the route		Verschaar 2014	
	Front gardens		Borst et al. 2008	Positively related
	Front gardens		Verschaar 2014	
	Parks		Verschaar 2014	
	Water features		Verschaar 2014	
	Nature animals flowers		Verschaar 2014	
	<b>Safety</b>			
	Overall business on the street	Pedestrians		
	Overall business on the street	bicycles		
	Overall business on the street	traffic		
	Vehicle-pedestrian interaction		Vine et al. 2012	Troublesome
	Vehicle pedestrian separation		Wennberg et al. 2010	
	Vehicle pedestrian separation	Green strips	Borst et al. 2008	
	Vehicle pedestrian separation		Dunbar et al. 2004	
	speed control measuerments			
	Speedlimit		Dunbar et al. 2004	
	low traffic roads		Rosenberg et al. 2012	
	mixed traffic places		Verschaar 2014	negative
	cyclists in pedestrian area		Wennberg et al. 2010	negative
	scooters driving on sidewalks		Verschaar 2014	negative
	two direction traffic		Verschaar 2014	negative
	Prencense of street lights		Bernhoff and Carstensen 2008	Low
	Prencense of street lights		Rosenberg et al. 2012	Key theme
	Prencense of street lights		Hovbrandt et al. 2007	
	Prencense of street lights		Wennberg et al. 2010	
	poor lighting		Verschaar 2014	negative
	Prencense of activity of other people		Verschaar 2014	
	Blind walls		Verschaar 2014	
	no traffic islands		Verschaar 2014	negative
	narrow scary		Verschaar 2014	
Environment	<b>Accessibility</b>			
	Pedestrian network	nodes in network	Vine, 2012	
		Short routes	Bernhoff and Carstensen 2008	Low
		quick routes	Bernhoff and Carstensen 2008	Low
	Public transport nodes		Verschaar 2014	positive
	Public transport nodes		Borst et al. 2008	Positively related
	no disabled parking		Verschaar 2014	negative
	Lack of handicapped parking spaces		Rosenberg et al. 2012	
	Parking is far form destination		Rosenberg et al. 2012	
	<b>Quality</b>			
	<b>obstruction</b>			
	<b>Route attractiveness</b>			
	Air pollution			
	Land use mix		Vine et al. 2012	
	Green			
	Landmarks and monuments			
	Prencense of highways			
	Architectual varaiety			
	Prencense of facilities			
		Schools		
		Youth centres		
		Club and pubs		
		Shops	Borst et al. 2008	Positively related
		shops	Verschaar 2014	positive
		Night activities		
		Catering	Borst et al. 2008	
		Catering	Verschaar 2014	positive
		Business buildings		
	Empty buildings		Borst et al. 2008	weak negative
	Building density		Borst et al. 2008	Negatively related
	Density of dwellings		Verschaar 2014	
	Parks		Borst et al. 2008	Positively related
	City centre		Borst et al. 2008	Positively related
	Traffic volume		Borst et al. 2008	Positively related
	traffic volume		Verschaar 2014	
	High rise buildings		Borst et al. 2008	Negatively related
	Waste terrain		Borst et al. 2008	
	Graffiti		Borst et al. 2008	Very negative
	Graffiti		Wennberg et al. 2010	
	Industry		Verschaar 2014	negative
	vacant buildings		Verschaar 2014	negative
	playgrounds		Verschaar 2014	positive
	loitering youth		Verschaar 2014	negative
	<b>Safety</b>			
	Traffic density		Bernhoff and Carstensen 2008	Low
	Traffic density		Hovbrandt et al. 2007	
	traffic volume		Verschaar 2014	negative
	Criminality		Rosenberg et al. 2012	
Weather	Slippery	Weather	Rosenberg et al. 2012	Key theme
	rain		Rosenberg et al. 2012	Key theme
	wind		Rosenberg et al. 2012	Key theme
	Heat	Weather	Rosenberg et al. 2012	Key theme
	sun		Rosenberg et al. 2012	Key theme
	sunshine		Verschaar 2014	positive
	stench		Verschaar 2014	negative
	cold/windy		Verschaar 2014	negative
	fresh air		Verschaar 2014	positive
	quiet		Verschaar 2014	positive
	snow removal		Wennberg 2009	